

CLAIMS:

- 1 1. *Bacillus megaterium* strain SB-3112, having the characteristics of ATCC
2 deposit number PTA-3142.
- 1 2. A composition comprising *Bacillus megaterium* strain SB-3112 having the
2 characteristics of ATCC deposit number PTA-3142.
- 1 3. The composition of claim 2, further comprising additional species of
2 microorganisms.
- 1 4. The composition of claim 3, wherein additional species of microorganisms is
2 selected from the group consisting of genera: *Acinetobacter*, *Aspergillus*,
3 *Azospirillum*, *Burkholderia*, *Bacillus*, *Ceriporiopsis*, *Enterobacter*,
4 *Escherichia*, *Lactobacillus*, *Paenebacillus*, *Paracoccus*, *Pseudomonas*,
5 *Rhodococcus*, *Syphingomonas*, *Streptococcus*, *Thiobacillus*, *Trichoderma*, and
6 *Xanthomonas*.
- 1 5 The composition of claim 3, wherein said microorganism is selected from the
2 group consisting of *Bacillus licheniformis*, *Bacillus amyloliquofaciens*,
3 *Bacillus laevolacticus*, *Bacillus pasteurii* and a combination thereof.
- 1 6 The composition of claim 4, additionally comprising components selected
2 from the group consisting of a non-toxic nutrient formulation, surfactant,
3 activator, preservative, stabilizer, fragrance, viscosifier and a combination
4 thereof.
- 1 7. The composition of claim 5, wherein said activator is glycerol.
- 1 8. The composition of claim 4, wherein said preservative is selected from the
2 group consisting of 1,2-benzisothiazolin-3-one; 5-chloro-2-methyl-4-
3 isothiazolin-3-one, 2-methyl-4-isothiazolin-3-one; quaternium-15; phenol;
4 sodium o-phenylphenate; o-phenylphenol; 6-acetoxy-2,4-dimethyl-m-
5 dioxane; tris(hydroxymethyl)nitromethane; hexahydro-1,3,5-tris(2-
6 hydroxyethyl)-s-triazine; chlorhexidine; p-hydroxybenzoic acid or its
7 methyl, ethyl, propyl, or butyl esters; benzoic, ascorbic, citric, or sorbic
8 acid; imidazolidinyl urea; diazolidinyl urea; dimethylol

9 dimethylhydantoin; methylene bithiocyanate; 2-bromo-2-nitropropane-
10 1,3-diol; 1,2-benzisothiazoline-3-one; methyl anthranilate, and a mixture
11 thereof.

1 9. The composition of claim 4, wherein said preservative is selected from the group
2 consisting of 1,2-benzisothiazolin-3-one and methyl anthranilate.

1 10. The composition of claim 4, wherein said surfactant is selected from the group
2 consisting of trideceth-3; 3 mole ethylene oxide adduct of a linear, primary
3 C12-14 alcohol; 7 mole ethylene oxide adduct of a linear, primary C12-14
4 alcohol; sodium lauryl sulfate; ammonium lauryl sulfate; dodecyl benzene
5 sulfonic acid; ammonium lauryl sulfate; sodium xylene sulfonate; sodium
6 lauryl sulfate; cocamide diethanolamine; lauramine oxide; sodium alphasulfo
7 methyl C12-18 ester and disodium alphasulfo C12-18 fatty acid salt; sodium
8 dodecylbenzene sulfonate; alkyl polyglycoside; nonylphenoxypoly
9 (ethyleneoxy) ethanol, branched; nonylphenoxypoly (ethyleneoxy) ethanol,
10 branched; alkoxylated linear alcohol; blend of ethoxylates of linear, primary
11 12-14 carbon number alcohol; octylphenoxypolyethoxyethanol absorbed on
12 magnesium carbonate; sodium dodecylbenzene sulfonate and isopropyl
13 alcohol; poe (6) tridecyl alcohol; poly (oxy-1,2-ethanediyl), alpha
14 (nonylphenyl)-omega hydroxy, branched, and a mixture thereof.

1 11. The composition of claim 2, wherein the components in are as follows:

- 2 (i) SB3112 ranging from about 1×10^5 to about 1×10^9 CFU/ml
3 (ii) glycerol ranging from about 0.01% to about 10%
4 (iii) surfactant ranging from 0.1 to 10%
5 (iv) preservative ranging from 1 ppm to 1.0%
6 (v) color ranging from 0.02% to 1%
7 (vi) fragrance ranging from 0.02% to 1.0%
8 (vii) viscosifier ranging from 0.05% to 5%;
9 all percentages being v/v.

- 1 12. A method for degrading fatty acid or grease, comprising exposing fatty acid,
2 grease, or fatty acid and grease to a composition comprising *Bacillus megaterium*
3 strain SB-3112 having the characteristics of ATCC deposit number PTA-3142.
- 1 13. The method of claim 12, adding a biodegrading activator to the composition.
- 1 14. The method of claim 13, wherein said activator is glycerol in a range of about
2 0.01% to about 10% (v/v).
- 1 15. The method of claim 12, adding a surfactant to the mixture to enhance
2 bioavailability of fatty acids and grease.